
Product Data Sheet

Product Name: NPL Human
 Cat. No.: GP22010
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	N-acetylneuraminate lyase; NALase; N-acetylneuraminate pyruvate-lyase; N-acetylneuraminic acid aldolase; Sialate lyase; Sialate-pyruvate lyase; Sialic acid aldolase; Sialic acid lyase; NPL; C1orf13; NAL; C112; NPL1.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MAFPKKKLQG LVAATITPMT ENGEINFSVI GQYVDYLVKE QGVKNIFVNG TTGEGLSLSV SERRQVAEEW VTKGKDKLDQ VIIHVGALS L KESQELAQHA AEIGADGIAV IAPFFLK PWT KDILINFLKE VAAAAPALPF YYYHIPALTG VKIRAEELLD GILDKIPTFQ GLKFSDTDLL DFGQCVDQNR QQQFAFLFGV DEQLLSALVM GATGAVGSTY NYLGKKTNQM LEAFEQKDFS LALNYQFCIQ RFINFVVKLG FGVSQTKAIM TLVSGIPMGP PRLPLQKASR EFTDSAEAKL KSLDFLSFTD LKDG NLEAGS.		
Formulation	NPL protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH8.0), 20% glycerol, 0.1M NaCl and 1mM DTT.		

Introduction

N-acetylneuraminate lyase (NPL) is an enzyme which catalyzes the chemical reaction (N-acetylneuraminate → N-acetyl-D-mannosamine + pyruvate). NPL is a member of a family of lyases, specifically the oxo-acid-lyases, which cleave carbon-carbon bonds. NPL participates in amino sugars metabolism.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

Caution: Product has not been fully validated for medical applications. For research use only.

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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NPL produced in E.Coli is a single, non-glycosylated polypeptide chain containing 340 amino acids (1-320 a.a.) and having a molecular mass of 37.3kDa. NPL is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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